

II. *A Catalogue of Eclipses, of Jupiter's Satellites, for the Year 1735. by James Hodgson, F. R. S. Master of the Royal Mathematical School at Christ's-Hospital, London.*

The Number of Immersions and Emersions amounting to 418.

ECLIPSES of the first Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.
JANUARY. Immersions.	FEBRUARY. Immersions.	MARCH. Immersions.
1 7 7 17	2 3 33 23	2 11 12 43
3 1 35 4	3 22 1 53	4 5 41 38
4 20 2 55	5 16 30 26*	6 0 10 31
6 14 30 48	7 10 59 0	7 18 39 26
8 8 58 43	9 5 27 34	9 13 8 21
10 3 26 40	10 23 56 10	11 7 37 17
11 21 54 39	12 18 24 49*	13 2 6 13
13 16 22 40	14 12 53 31	14 20 35 9
15 10 50 43	16 7 22 14	16 15 4 6*
17 5 18 48	18 1 50 58	18 9 33 2
18 23 46 56	19 20 19 44	20 4 1 57
20 18 15 7*	21 14 48 31	21 22 30 52
22 12 43 20	23 9 17 19	23 16 59 48*
24 7 11 35	25 3 46 10	25 11 28 42
26 1 39 52	26 22 15 0	27 5 57 37
27 20 8 11	28 16 43 53*	29 0 26 29
29 14 36 33		30 18 55 21
31 9 4 57		

APRIL.

ECLIPSES of the first Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
APRIL.				12	6	22	18	25	14	22	10*
Immersion.				14	0	50	37	27	8	50	29
1	13	24	12	15	19	18	54	29	3	18	50
3	7	53	3	17	13	47	9*	30	21	47	14
5	2	21	52	19	8	15	24	JULY.			
6	20	50	43	21	2	43	39	Emersions.			
8	15	19	32*	22	21	11	54	2	16	15	40
10	9	48	18	24	15	40	6*	4	10	44	10*
12	4	17	3	26	10	8	16	6	5	12	42
13	22	45	48	28	4	36	26	7	23	41	14
15	17	14	33	29	23	4	36	9	18	9	48
17	11	43	16	31	17	32	45	11	12	38	26*
19	6	11	56	JUNE.				13	7	7	5
21	0	40	34	Immersion.				15	1	35	44
22	19	9	10	2	12	0	55*	16	20	4	25
24	13	37	46*	4	6	29	5	18	14	33	9*
26	8	6	21	6	0	57	16	20	9	1	58
28	2	34	54	7	19	25	25	22	3	30	46
29	21	3	26	9	13	53	34*	23	21	59	38
MAY.				11	8	21	44	25	16	28	30
Immersion.				13	2	49	56	27	10	57	25*
1	15	31	57	14	21	18	6	29	5	26	22
3	10	0	21	16	15	46	18*	30	23	55	22
5	4	28	46	18	10	14	33	AUGUST.			
6	22	57	10	Emersions.				Emersions.			
8	17	25	34	20	6	57	17	1	18	24	24
10	11	53	57*	22	1	25	34	3	12	53	28
				23	19	53	51				

ECLIPSES of the second Satellite of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
JANUARY.				14	19	20	15	JUNE.			
Immerfions.				18	8	38	45	Immerfions.			
2	17	27	57	21	21	57	15	4	13	9	4*
6	6	44	17	25	11	15	44	8	2	26	1
9	20	0	40	29	0	34	9	11	15	43	2*
13	9	17	14	APRIL.				15	5	0	3
16	22	34	4	Immerfions.				18	18	17	12
20	11	50	59	1	13	52	33*	Emerfions.			
24	1	8	2	5	3	10	53	22	10	22	30*
27	14	25	14	8	16	29	10*	25	23	39	51
31	3	42	36	12	5	47	20	29	12	57	14*
FEBRUARY.				15	19	5	27	JULY.			
Immerfions.				19	8	23	29	Emerfions.			
3	17	0	7*	22	21	41	21	3	2	14	48
7	6	17	51	26	10	59	10	6	15	32	36
10	19	35	38	30	0	16	56	10	4	50	25
14	8	53	34	MAY.				13	18	8	27
17	22	11	39	Immerfions.				17	7	26	32
21	11	29	48	3	13	34	21*	20	20	44	50
25	0	48	3	7	2	51	50	24	10	3	16*
28	14	6	24	10	16	9	15*	27	23	21	48
MARCH.				14	5	26	34	31	12	40	30*
Immerfions.				17	18	43	48	AUGUST.			
4	3	24	48	21	8	0	59	Emerfions.			
7	16	43	15*	24	21	18	4	4	1	59	13
11	6	1	44	28	10	35	5*	7	15	18	12
				31	23	52	3				

ECLIPSES of the *second Satellite* of JUPITER.

D.	H.	M.	S.	D.	H.	M.	S.	D.	H.	M.	S.
11	4	37	15	OCTOBER.				11	14	50	4
14	17	56	31					15	4	7	19
18	7	15	50*					18	17	24	20
21	20	35	10	Emerfions.				22	6	41	17*
25	9	54	40*					25	19	57	58
28	23	14	13	3	12	29	1	29	9	14	31
SEPTEMBER.				7	1	48	7	DECEMBER.			
				10	15	7	1				
Emerfions.				14	4	25	51				
				17	17	44	28	Emerfions.			
1	12	33	47	21	7	2	57*				
5	1	53	21	24	20	21	16	2	22	31	6
8	15	12	56	28	9	39	23	6	11	47	29
12	4	32	32	31	22	57	20	10	1	3	51
15	17	52	6	NOVEMBER.				13	14	20	10
19	7	11	39*					17	3	36	28
22	20	31	4	Emerfions.				20	16	52	50
26	9	50	30*					Jupiter and the Sun in Conjunction.			
29	23	9	50	4	12	15	0				
				8	1	32	38				

ECLIPSES of the *third Satellite* of JUPITER.

JANUARY.				FEBRUARY.				19	13	32	54
Immerfions.				Immerfions.				26	17	33	31*
								MARCH.			
7	10	42	50	5	2	32	25	Immerfions.			
14	14	39	17	12	6	31	16				
21	18	36	23*	19	10	30	42	5	18	30	45
28	22	34	3	26	14	30	29	12	22	31	9
Emerfions.				Emerfions.				20	2	31	36
								27	6	32	1
21	21	35	15	5	5	32	57	Emer-			
29	1	33	45	12	9	32	38				
				P p							

(284)

ECLIPSES of the third Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.
Emerfions.	JUNE.	10 13 32 57
5 21 34 37	Immerfions.	17 17 35 34
13 1 35 51	6 22 19 8	24 21 38 27
20 5 37 6	14 2 16 38	SEPTEMBER.
27 9 38 19	Jupiter and the Sun in Opposition the 19th Day.	Immerfions.
APRIL.	Emerfions.	8 2 22 13
Immerfions.	21 9 29 51*	15 6 24 57*
3 10 32 9	28 13 28 34*	22 10 27 32*
10 14 32 5*	JULY.	29 14 29 52
17 18 31 43	Emerfions.	Emerfions.
24 22 30 54	5 17 27 55	1 1 41 40
Emerfions.	12 21 27 51	8 5 45 3
3 13 39 15*	20 1 28 17	15 9 48 25*
10 17 39 59	27 5 29 18	22 13 51 36
17 21 40 25	AUGUST.	29 17 54 30
25 1 40 24	Immerfions.	OCTOBER.
MAY.	3 6 11 24	Immerfions.
Immerfions.	10 10 12 47*	6 18 31 45
2 2 29 49	17 14 14 44	13 22 33 5
9 6 28 17	24 18 16 57	21 2 33 46
16 10 26 22	31 22 19 30	28 6 33 49*
23 14 24 11*	Emerfions.	Emerfions.
30 18 21 40	2 5 40 5	6 21 56 55
Emerfions.	9 9 39 19	14 1 58 45
2 5 40 5	3 9 30 54*	21 5 59 56*
9 9 39 19		28 10 0 29
		NOVEM.

(285)

ECLIPSES of the third Satellite of JUPITER.

D. H. M. S.	D. H. M. S.	D. H. M. S.
NOVEMBER.	11 17 59 33	Emerfions.
Immerfions.	18 21 58 3	3 5 53 4*
4 10 33 19	26 1 55 50	10 9 50 5
11 14 32 53	DECEMBER.	17 13 46 53
Emerfions.	Immerfions.	Jupiter and the Sun in Conjunction.
4 14 0 29		

ECLIPSES of the fourth Satellite of JUPITER.

JANUARY.

Immerfions.	Emerfions.
8 2 39 58	8 4 41 4
24 20 32 47	24 22 46 1

FEBRUARY.

10 14 28 46	10 16 55 6*
27 8 29 57	27 11 5 25

MARCH.

16 2 32 19	16 5 16 59
------------	------------

APRIL.

1 20 35 36	1 23 28 58
18 14 37 13*	18 17 39 35

MAY.

5 8 38 5	5 11 47 29*
22 2 36 4	22 5 54 32

P p 2

JUNE.

(286)

ECLIPSES of the fourth Satellite of JUPITER.

D.	H.	M.	S.		D.	H.	M.	S.
----	----	----	----	--	----	----	----	----

JUNE.

Immersion.					Emerfions.			
7	20	33	55					

Jupiter and the Sun in Opposition.

JULY.

18	2	37	51		11	12	12	25*
					28	6	23	1

AUGUST.

13	20	45	43		14	0	36	49
30	14	56	16		30	18	52	56

SEPTEMBER.

16	9	7	56*		16	13	9	52
----	---	---	-----	--	----	----	---	----

OCTOBER.

3	3	18	56		3	7	25	50*
19	21	27	43		20	1	39	17

NOVEMBER.

5	15	33	11		5	19	49	1
22	9	35	37		22	13	54	31

DECEMBER.

9	3	34	12		9	7	57	50
---	---	----	----	--	---	---	----	----

Jupiter and the Sun in Conjunction.

N. B. *Those marked with a Star, are visible at London.*

III. The